

ABSTRACT

The present invention refers to an anticipatory system and control method for electric motor applied to cyclical loads, said system having an electric motor (10), at least an electronic control unit (20), at least an electronic power unit (30), at least an electric position-observing device, the electric motor (10) being electrically driven by way of the electronic power unit (30), the electronic power unit (30) being electrically commanded by way of the electronic control unit (20), the system comprising an average speed controller and a position-observing device of the electric motor, both implemented by way of the electronic control unit (20), the speed controller being arranged to monitor an average speed of the electric motor (10), the position-observing device being arranged to monitor and store an instantaneous speed (V_i) in each position of the electric motor (10) and estimate, by way of each position, an instantaneous speed of control (V_c) of the electric motor (10), the electronic control unit (20) being arranged to calculate an average voltage (V_m) based on the average speed monitored, the electronic power unit (30) being arranged to electrically drive the electric motor 10 by way of a control voltage value (V_{control}), this control voltage value being (V_{control}) calculated by multiplying the average voltage (V_m) by the result of the division between the instantaneous speed of control (V_c) and the average speed.